Blu-ray Disc Player

User's Manual

EDBC011

Contents

Key features of your new Blu-ray Disc Player

About the Use of This User's Manual

1) Be sure to be familiar with safety instructions before using this product.
2) If a problem occurs, check the Troubleshooting section on page 51.

Blu-ray Disc Features

Blu-ray Discs can store 25GB (single layer) or 50 GB (dual layer) on a single side disc - about 5 to 10 times the capacity of a DVD. Blu-ray Discs also support the highest quality HD video available in the industry (up to 1920 x 1080 at 40 Mbit / sec) - Large capacity means no compromise on video quality. Furthermore, a Blu-ray Disc has the same familiar size and look as DVD.

* The following Blu-ray Disc features are disc dependant and will vary.
 Appearance and navigation of features will also vary from disc to disc.
 Not all discs will have the features described below.

Video Highlights

The BD-ROM format for movie distribution support three highly advanced video codecs, including AVC, VC-1, and MPEG-2.
HD video resolutions are also available:
• 1920 x1080 HD
• 1280 x 720 HD

For High-Definition Playback

To view high-definition contents in BD discs, an HDTV (High Definition Television) is required. Some discs may require using the player's HDMI OUT to view high-definition content. The ability to view high-definition content on BD discs may be limited depending on the resolution of your TV.

Safety Information

Please read the manual carefully before using this BD player, and keep it safe for future reference.

Warning

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).
NO USER - SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡	**CAUTION** RISK OF ELECTRIC SHOCK DO NOT OPEN	!
The lightening flash and Arrowhead within triangle is a warning sign alerting you of dangerous voltage inside the product.	To reduce the risk of electric shock, do not remove the cover (or back) no user - serviceable parts are inside. refer servicing to qualified service personnel.	The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

Warning

In order to prevent the risk of fire or electric shock, do not expose the machine to rain or any moisture. Do not open the case of the unit because of the risk of electric shock. Repair work must be undertaken by qualified personnel.

Caution

If the player is moved from a cold to warm environment condensation may develop on the lens of the laser. To ensure correct operation switch the unit off and leave it for one hour before using.

Caution

This BD player has a laser system.
Please note that hazardous radiation leakage may be caused if the player is misused in anyway. Do not defeat the safety interlocks.
Do not open the case of the player. The laser light will become visible when the case is opened.

Warning

• This player may malfunction if it is modified or repaired by unauthorized persons.
• The player shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product.
• Must be shown how can operate the product via the MODE and Vol+ and Vol- button for the unit complete the function.

CLASS 1 LASER PRODUCT

CLASS 1 LASER PRODUCT	**Class II equipment symbol** This symbol indicates that the unit has a double insulation system ▫
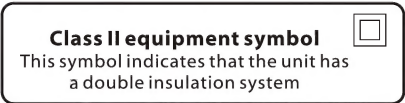
Safety Information

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Caution

Laser radiation when open. Do not stare into beam.
THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

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Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories. *Additionally, software products running on a computer must also be marked with:* Confidential unpublished works. Copyright 1995-2005 Dolby Laboratories. All rights reserved.

Precautions

Important Safety Instructions
Read these operating instructions carefully before using the unit. Following all the safety instructions listed below. Keep these operating instructions handy for future reference.
1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators. heat registers. Stoves. or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect t he Dower cord from being walked on or pinched particularly at plugs. Convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart. stand. tripod. bracket. or table specified by the manufacturer. or sold with the apparatus. When a cart is used. use caution when moving the cart / apparatus combination to avoid injury

Safety Information

from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been
    damaged in any wav. such as power-supply cord or plug is damaged, liquid has been spilled or objects have
    fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or
    has been dropped.
    Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids such as vases,
    shall be placed on the apparatus. Maintain well-ventilated conditions around the product. Do not place on
    bed, sofa, or anything that blocks ventilation.
    Where the mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

Handling Cautions

• Before connecting other components to this Blu-ray Disc Player, be sure to turn them all off.
• Do not move the Blu-ray Disc Player while a disc is being played, or the disc may be scratched or broken, the
  Blu-ray Disc Player internal parts may be damaged.
• Do not put a flower vase filled with water or any small metal objects on the Blu-ray Disc Player.
• Be careful not to put your hand into the disc tray.
• Do not place anything other than the disc in the disc tray.
• Exterior interference such as lightning and static electricity can affect normal operation of this Blu-ray Disc
  Player. If this occurs , turn the Blu-ray Disc Player off and on again with the POWER button, or disconnect and
  then reconnect the AC power cord to the AC power outlet. The Blu-ray Disc Player will operate normally.
• Be sure to remove the disc and turn off the Blu-ray Disc Player after use.
• Disconnect the AC power cord from the AC outlet when you don't intend to use the Blu-ray Disc Player for long
  periods of time.
• Clean the disc by wiping in a straight line from the inside to outside of the disc.
• Do not to expose the player to dripping or splashing liquids.
• When the AC plug is connected to a wall outlet, the player will still draw power (standby mode) when it is
  turned off.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.
• Do not use benzene, thinner, or other solvents for cleaning.
• Wipe the cabinet with a soft cloth.

Getting Started

Disc Type and Characteristics

Disc types that can be played

Disc Types	Disc Logo	Recorded content	Disc Shape	Max. Playing minute
BD-ROM	Blu-ray Disc	AUDIO+VIDEO	Single sided (25GB/50GB)	Playing time depends on the Title
DVD-VIDEO	DVD VIDEO	AUDIO+VIDEO	Single sided (5 inches)	240
			Double sided (5 inches)	480
			Single sided (3 1/2 inches)	80
			Double sided (3 1/2 inches)	160
AUDIO-CD	COMPACT disc DIGITAL AUDIO	AUDIO	Single sided (5 inches)	74
			Single sided (3 1/2 inches)	20
DVD±RW (V mode and finalized only)	DVD RW	AUDIO+VIDEO	5 inches (4.7GB)	———
DVD±R (V mode and finalized only)	DVD R	AUDIO+VIDEO	5 inches (4.7GB)	———
CD-R/-RW DVD±RW/±R		JPEG MP3	———	

Disc types that can be played

Blu-ray Disc	Dolby Digital Plus	DTS-HD Digital Surround
Blu-ray Disc	DOLBY DIGITAL PLUS	dts Digital Surround
NTSC broadcast system in U.S.A, Canada, Korea, Japan	Dolby TrueHD	DTS-HD Advanced Digital Out
NTSC	DOLBY TRUEHD	dts-HD Advanced Digital Out
Digital Audio	MP3	Stereo	Java
DIGITAL SOUND	MP3 PLAYER	STEREO	Java

Getting Started

Discs that cannot be played

• Blu-ray Discs with a region code other than "Region A".
• HD DVD Disc
• DVD-Video with a region number other than "1" or "ALL".
• DVD-RAM
• 3.9GB DVD-R Disc for Authoring.
• DVD-RW (VR mode)
• DVD-ROM / PD / MV-Disc, etc.
• CVD / CD-ROM / CDV / CD-G / CD-I / LD

[**NOTE**]:
• Some commercial discs and DVD discs purchased outside your region may not be playable with this product.
• If a DVD±R / ±RW disc has not been recorded properly in DVD video format, it will not be playable.
• The unit cannot play CD-R / -RW and DVD±RW / ±R recorded content such as divx, avi, mpg, mov.

Region Code

Both the Blu-ray Disc Player and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play.
The Region Number for this Blu-ray Disc Player is described on the rear panel of the Blu-ray Disc Player.

Disc Type	Blu-ray	DVD-Video
Region code	(A)	(1)

BD Region code	Area
A	North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
B	Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
C	India, China, Russia, Central and South Asia.

[**NOTE**]:
• Playback may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the disc is written in detail on the box. Please refer to this necessary.
• Do not allow the disc to become dirty or scratched. Finger prints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for playback.
• When a BD-Java title is played, loading may take longer than a normal title, or some functions may perform slowly.

Getting Started

Disc Types

BD-ROM
Blu-ray Disc Read Only Memory. A BD-ROM disc contains pre-recorded data. Although a BD-ROM may contain any form of data, most BD-ROM discs will contain movies in High Definition format, for playback on Blu-ray Disc Players. This can play back pre-recorded BD-ROM discs.

DVD-Video
• A digital versatile disc (DVD)can contain up to 135-minutes,8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby Digital surround, allowing you to enjoy vivid and clear theatre quality images.
• When switching from the first layer to the second layer of a dual-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
• Once a DVD±RW/±R recorded in Video Mode is finalized, it becomes DVD-Video. Pre- recorded (pre-stamped) commercial DVDs with movies are also referred to as DVD-Videos. This unit can play back pre-recorded commercial DVD discs (DVD Video discs) with movies.

Audio CD
• An audio disc on which 44.1kHz PCM Audio is recorded.
• This unit can play back CD-DA format audio CD-R and CD-RW discs.
• This unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

CD-R/-RW
• Use a 700MB (80 minutes) CD-R/-RW disc. If possible, do not use a 800MB (90 minutes) or above disc, as the disc may not play back.
• If the CD-R/-RW disc was not recorded as a closed as a closed session, you may experience delays when playing back the beginning of the disc or all recorded files may not play.
• Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.

DVD±R Disc Playback
• Once a DVD±R recorded in Video Mode is finalized, it becomes DVD-Video.
• This unit can play back DVD±R discs recorded . It may not be able to play some DVD±R discs depending on the disc and the condition of the recording.

DVD±RW Disc Playback
• Playback can be performed with DVD±RW discs in the Video Mode and finalized only.
• Once a DVD±RW recorded in Video Mode is finalized, it becomes DVD-Video. Ability ro play back may depend on recording conditions.

Disc Format

Using MP3 disc
• CD-R/-RW,DVD±RW/±R recorded with UDF,ISO9660 or JOLIET format can be played back.
• Only MP3 files with the ".mp3" or ".MP3" extension can be played.
• Playable bit-rate range is from 56Kbps to 320 Kbps.

Getting Started

- Playable sample-rate is 16KHz to 48KHz.
- The unit can handle a maximum of 1500 files and folders under a parent folder. For MP3 files recorded with a VBR (Variable Bit Rates), the sound may cut in and out.

Using JPEG disc
- CD-R/-RW,DVD±RW/±R recorded with UDF,ISO9660 or JOLIET format can be played back.
- Only JPEG files with the ".jpg", ".JPG", ".jpeg" or "JPEG" extension can be displayed.
- Progressive JPEG is supported.

DVD±RW/±R
- This is a format that used of recording data on a DVD±RW or DVD±R disc. The disc can be played by this Blu-ray disc player once it has been finalized.
- If a disc that has been recorded in video Mode by a different maker's recorder but has not been finalized, it cannot be played by this Blu-ray disc player.

Disc Storage&Management

Disc Handing
- Use discs with regular shapes. If an irregular disc(a disc a special shape)is used, this Blu-ray disc player may be damaged.

   Holding discs
   - Avoid touching the surface of a disc where recording is performed.

   Blu-ray Discs
   - If the player is not used for a long period of time, remove the Blu-ray Disc from the player and store it in its case.
     Be careful not to leave fingerprints or scratches on the surface of the Blu-ray Disc.

   DVD±RW and DVD±R
   - Clean with an optional disc cleaner.
     Do not use cleaners or cloths for CDs to clean DVD±RW/±R discs.

   DVD-Video,Audio-CD
   - Wipe off dirt or contamination on the disc with a soft cloth.

   Cautions on handing discs
   - Do not write on the printed side with a ball-point pen or pencil.
   - Do not use record cleaning sprays or antistatic sprays. Also, do not use volatile chemicals, such as benzene or thinner.
   - Do not apply labels or stickers to discs.(Do not use discs fixed with exposed tape adhesive or leftover peeled- off stickers.)
   - Do not use scratch-proof protectors or covers.
   - Do not use discs printed with label printers.
   - Do not load warped or cracked discs.
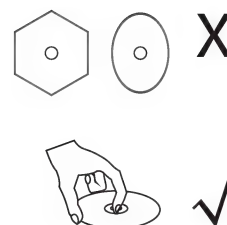
Disc Storage
- Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.
- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.

Getting Started

- Keep in a clean protection jacket.
- If you move your Blu-ray disc player suddenly from a cold place to a warm place, condensation may generate on the operating parts and lens and cause abnormal disc playback. If this occurs, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again.

Description

Front Panel

❶	(⏻) Power Button	Turn the Blu-ray disc player on and standby.
❷	(▲) Open / Close Button	Open and close the disc tray.
❸	(▶) Play Button	Press to play a disc.
❹	(❚❚) Pause Button	Press to pause the playback.
❺	(■) Stop Button	Stop disc playback.
❻	(◀◀) Previous Button	Press to go to previous list/track/chapter.
❼	(▶▶) Next Button	Press to go to next list/track/chapter.
❽	(USB ⟳) USB	USB port.
❾	Disc Tray	Open to accept a disc.
❿	(▣) Infrared sensor	Receives the signal from the remote control.

Front Panel Display
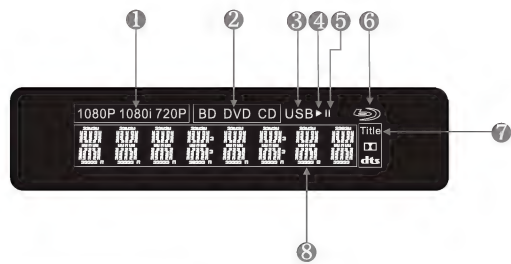
❶	Video output resolution indicator.
❷	Disc type indicators.
❸	USB indicator.
❹	Playback indicator.
❺	Pause indicator.
❻	⟳ Logo indicator.
❼	Title/ᄆ/dts indicator
❽	Playing time/clock/current status indicator.

Description
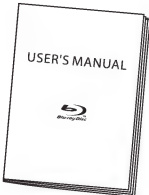
Rear Panel

①	HDMI OUT	Use the HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture.
②	VIDEO OUT	Connect to the input of external equipment using a video cable.
③	S-VIDEO OUT	Connect to the input of external equipment using an S-Video cable.
④	COMPONENT VIDEO OUT	Connect to equipment having component video input.
⑤	COAXIAL OUT	Connect to an amplifier having a digital coaxial audio input jack.
⑥	OPTICAL OUT	Connect to an amplifier having a digital optical audio input jack.
⑦	AUDIO OUT	Connect to the audio input of external equipment using audio cables.
⑧	5.1 CH AUDIO OUT	Connect to a 5.1CH analog input on an A/V amplifier.
⑨	FAN	The fan always revolves when the power is on. Ensure a minimum of 4 inches of clear space on all sides of the fan when installing the product.
⑩	AC INLET	AC120V 60Hz

Accessories

Remote Control..........................1   Batteries.......................................2   Quik Start Guide...............1
AV Cable..1   User's Manual............................1   Warranty Card..............1

| Remote Control | Batteries | AV Cable | User's Manual | Warranty Card | Quik Start Guide |

Remote Control

Loading Batteries

1. Push downward and outward the leaf spring to remove the battery compartment cover.	2. Insert two size AA batteries according to the "+" and "-" markings.	3. Close the cover.
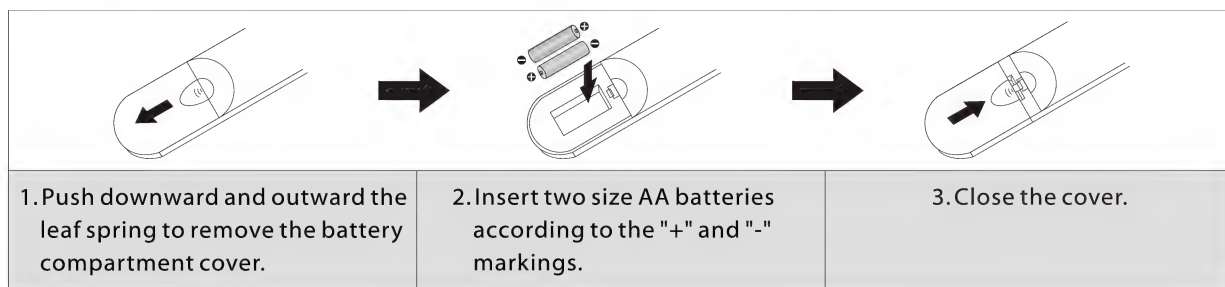
[**NOTE**]:

A. Do NOT mix different types together, or old batteries with new batteries.

B. While the remote control will not be used for an extended period of time, remove the batteries to prevent possible corrosion.

C. To prevent corrosion resulting in damage, remove exhausted batteries immediately.
When the remote control doesn't appear to operate normally, replace both of the batteries.

D. Typical life for the batteries provided with this product is about 6 months. The life expectance may vary according to the use status.

Operating with the Remote Control

Point the remote control toward the remote sensor on your DVD home theatre center. Upon receipt of the signal from the remote control, the equipment will operate accordingly. The description in this manual is based on the buttons on the equipment. You may use the counterparts on the remote control to do the same.

[**NOTE**]:

A. Do not place this equipment in a place exposed to direct sunlight or strong light source like inverting fluorescent light, or else it may interfere with correct operation of the remote control.

B. When other similar remote control is used in the same room, or when this product is used near other equipment using infrared ray, interference with the operation of this remote control may occur.

C. Do not place any object on the remote control or else it may cause unintentional depression of the buttons and waste the batteries unnecessarily.

D. The front of the chassis should not be glazed with color glass, or else it may cause interference with normal operation of the remote control.

E. Any barrier between the remote control and remote sensor will inactivate any operation of the remote control.

F. The operating range between the remote control and the equipment shall be no more than 5 meters (16 feet). When the operating range becomes shorter, replace the batteries with new ones.

Remote Control

Buttons and Functions

STANDBY Button — STANDBY

OPEN/CLOSE Button — OPEN/CLOSE

NUMBER Button — 1 2 3 4 / 5 6 7 8 / 9 0

REPEAT Button — REPEAT

SEARCH Button — SEARCH

RED Button — A

GREEN Button — B

YELLOW Button — D

BULE Button — C

REV Button — REV

PREV Button — PREV

FWD Button — FWD

NEXT Button — NEXT

SETUP Button — SETUP

RETURN Button — RETURN

ENTER / DIRECTION Buttons
(▲ ▼ ◄ ►) — ENTER

TOP MENU button — TOP MENU

POP MENU/TITLE Button — POP MENU/TITLE

PAUSE/STEP Button — PAUSE/STEP

PLAY Button — PLAY

STOP Button — STOP

AUDIO Button — AUDIO

INFO

ANGLE Button — ANGLE

MUTE Button — MUTE

PIP Button — PIP

SLOW Button — SLOW

SUBTITLE/USB Button — SUBT/USB

PIP Button — RESOLUTION

ZOOM Button — ZOOM

RESOLUTION Button

ELEMENT
ELECTRONICS

Blu-ray Disc

Remote Control

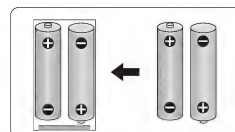| BUTTON	INTRO	BUTTON	INTRO
STANDBY Button	Power On/Standby	SEARCH Button	Search time to start playing
RESOLUTION Button	Change the resolution of output on NO DISC status	PIP Button	Picture in Picture
ANGLE Button	Multi-angle optional playing	REPEAT Button	Allows you to repeat a title, chapter, track or disc, expect BD-J disc
NUMBER Buttons	Digital button, for item selection & programming	SETUP Button	Enter setup menu
TOP MENU Button	Display the disc root menu	ZOOM Button	Zoom in or off
ENTER / DIRECTION Buttons (▲ ▼ ◄ ►)	Confirm selection / For directions selection	TITLE Button	Return to the main menu in playing mode
PLAY Button	Play	POP MENU Button	Display the disc menu
PAUSE / STEP Button	Pause /Step	RETURN Button	Last selection in setup menu
AUDIO Button	Audio language switch	STOP Button	Stop
MUTE Button	Mute on/off	NEXT Button	Play next item or chapter in playing mode
SUBTITLE Button	Select the subtitle language	PREV Button	Return to last item or chapter in playing mode
SLOW Button	Slow play	FWD Button	Fast forward play
OPEN/CLOSE Button	Open/Close the disc tray	REV Button	Reverse play
INFO Button	Displays current setting or disc status	Color buttons(red/ green/bule/yellow)	Short cut keys for selecting items on some BD's menus(can also be used for BD's java interactive operations).

Regarding the Battery

If the remote does not operate properly:
• Check the polarity + - of the batteries (Dry-Cell).
• Check if the batteries are drained.
• Check if remote sensor is blocked by obstacles.
• Check if there is any fluorescent lighting nearby.
Dispose of batteries according to local environmental regulations. Do not put them in the household trash.

Remote Control

BUTTON	FOR BD	FOR DVD	FOR CDDA	FOR ISO
STANDBY Button	Power On/Standby			
RESOLUTION Button	Change the resolution of output on NO DISC status			
ANGLE Button	Change angle		Not supported	
NUMBER Buttons	Digital button, for item selection & programming			Not supported
TOP MENU Button	Display the disc root menu		———————	
ENTER / DIRECTION Buttons (↑ ↓ ← →)	Confirm selection / For directions selection			
PLAY Button	Playing the disc or resume playing if in paused mode			
PAUSE / STEP Button	Step status if in paused mode / Paused if in playing mode		———————	
AUDIO Button	Change audio stream		Not supported	
MUTE Button	Mute on/off			
SUBTITLE Button	Select the subtitle language		Not supported	
SLOW Button	Slow play			
OPEN/CLOSE Button	Open/Close the disc tray			
INFO Button	Displays The status of player, Elapsed time of disc playing, disc type, Current title / chapter, Frequency or Bit rate		Total Track, Displays Track number, duration, elapsed time	Displays File name, file size, format, duration, elapsed time

Remote Control

| BUTTON	FOR BD	FOR DVD	FOR CDDA	FOR ISO
SEARCH Button	Search a chapter or time to start playing			
PIP Button	Picture in picture		————————	
REPEAT Button	Allows you to repeat off, title or chapter (not support for BD-J discs)		Allows you to repeat disc, track or random	
SETUP Button	Adjust basic functions such as brightness, contrast, hue, saturation... this takes effect only when playing video			
ZOOM Button	Zoom in or off (not support for BD-J discs)			
TITLE Button	Display pop-up menu during playback	Go to the root of Title	————————	
POP MENU Button	Display the pop menu of the disc		————————	
RETURN Button	Last selection in setup menu			
STOP Button	Press STOP button once for pre-stop, press STOP button twice to stop completely, expect for BD-J disc.			
NEXT Button	Jump to next chapter or next track or next file in disc			
PREV Button	Jump to previous chapter or previous track or previous file in disc			
FWD Button	Forward at x2, x4 or x16 speed			
REV Button	Backward at x2, x4 or x16 speed			

Connections

This section involves various methods of connecting the Blu-ray disc player to other external components.
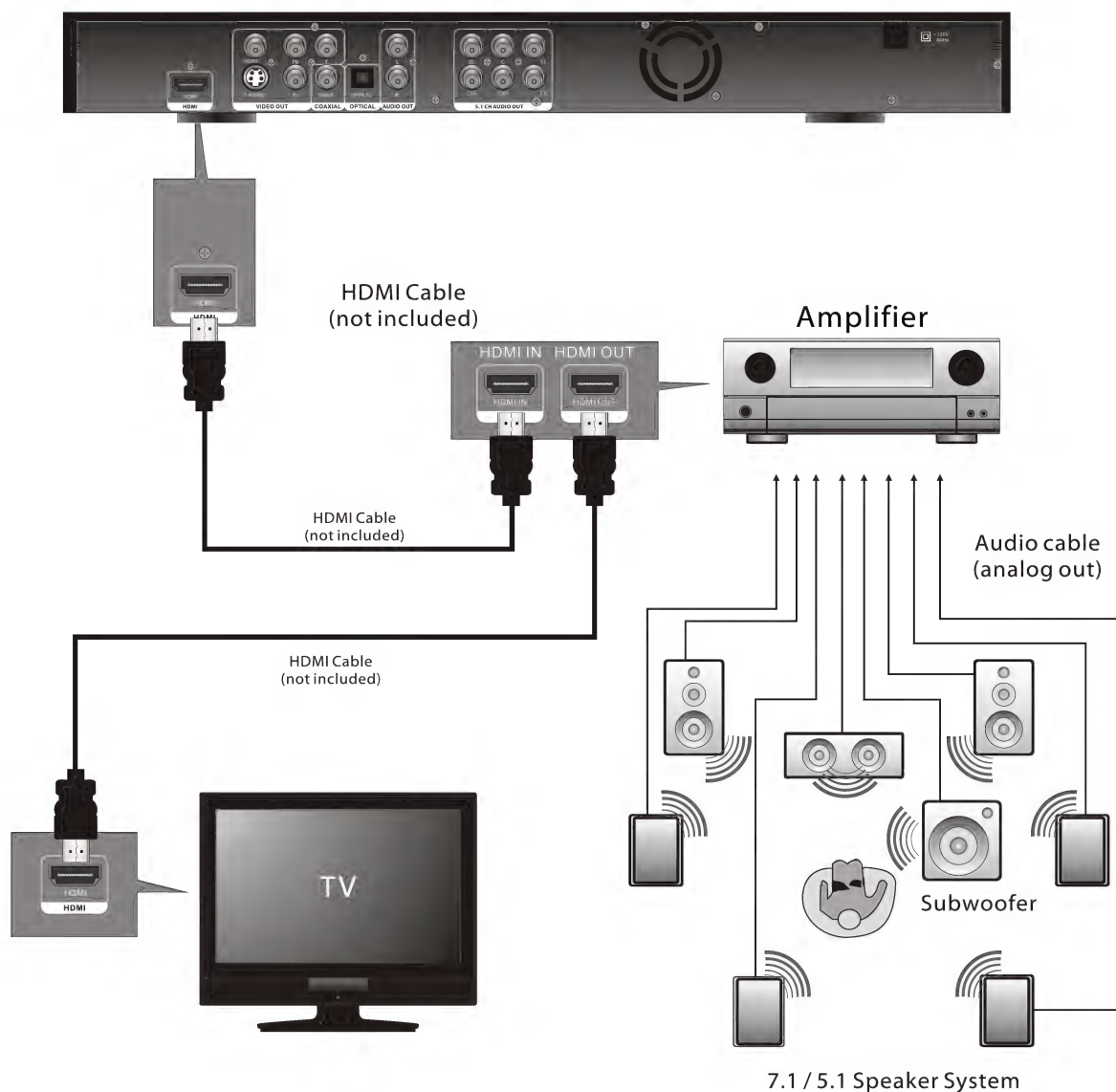
Connecting to a TV With an HDMI Cable

A. 1. Using an HDMI-HDMI cable (not included) connect the HDMI OUT terminal on the rear of the Blu-ray disc player to the HDMI IN terminal of your TV.
2. Press the input selector on your TV remote control until the HDMI signal from the Blu-ray appears on your TV screen.
   If you have set the remote control to properly operate with your TV , press the TV INPUT SEL.button on the remote control and select HDMI as the external source of the TV.

HDMI Cable
(not included)
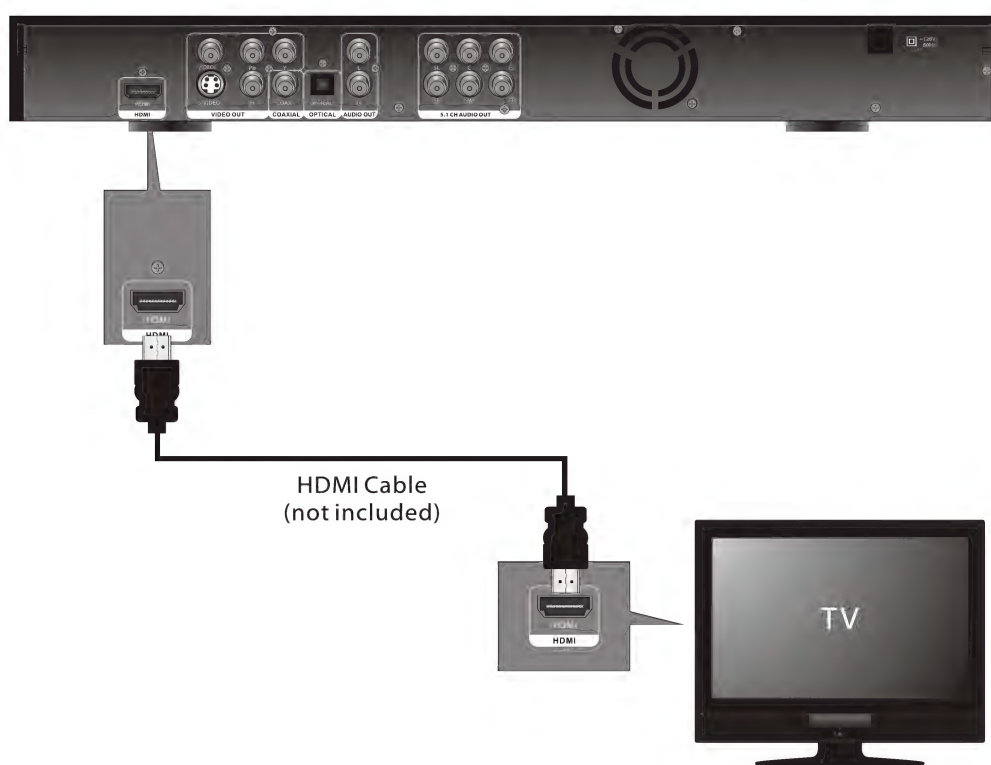
Connections

B. If the amplifier and TV have HDMI input, please use below connection to get best video and best audio and if the amplifier has Dolby HD, DHS, HD decoded function, please go to **Setup -> Audio -> Digital Output -> HDMI Audio** to get **Bitsteam** mode for best effect.

HDMI Cable
(not included)

HDMI IN   HDMI OUT

Amplifier

HDMI Cable
(not included)

Audio cable
(analog out)

HDMI Cable
(not included)

TV

HDMI

Subwoofer

7.1 / 5.1 Speaker System

Connections

HDMI Auto Detection Function

The player's video output will automatically change to HDMI mode when connecting an HDMI cable (not included) while power is on.
[**NOTE**]:
• Depending on your TV, certain HDMI output resolutions may not work.
• Please refer to the User's Manual of your TV.
• If an HDMI-HDMI cable (not included) is connected, HDMI mode is automatically selected.
• When you connect the player to the TV using the HDMI cable (not included) for the first time or to a new TV, the HDMI output resolution will be automatically set to the highest provided by the TV.

HDMI (High Definition Multimedia Interface)

HDMI is an interface that enables the digital transmission of video and audio data with just a single connector. Using HDMI, the Blu-ray disc player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.

HDMI Connection Description

HDMI connector-Supports video and digital audio data (LPCM or Bitstream).
• HDMI outputs only a pure digital signal to the TV.
• If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.

What is the HDCP?

HDCP (High-bandwidth Digital Content Protection)is a system for protecting BD/DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source(PC,DVD.etc)and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

Connections

## Connecting to a TV with DVI Cable

1. Using the HDMI-DVI cable (not included), connect the HDMI OUT terminal on the rear of the Blu-ray disc player to the DVI IN terminal of your TV.
2. Using the audio cables (not included), connect the AUDIO (red and white) OUT terminals on the rear of the Blu-ray disc Turn on the Blu-ray disc player and TV.
3. Press the input selector on your TV remote control until the DVI signal from the Blu-ray disc player appears on your TV screen.
   If you have set the remote control to properly operate with your TV, press the TV INPUT SEL. button on the remote control and select HDMI as the external source of the TV.

Connecting the HDMI cable while the Blu-ray player's power is on, the player's video output will automatically change to HDMI mode.

[**NOTE**]:
• Depending on your TV, certain HDMI output resolutions may not work.
• Please refer to the user's manual of your TV.
• If an HDMI or HDMI-DVI cable is plugged into TV, the Blu-ray disc player's output is set to HDM I / DVI automatically within 10 seconds.
• If Component and HDMI are both connected, HDMI mode is automatically selected.
• When you connect the player to the TV using the HDMI cable for the first time or to a new TV, the HDMI output resolution will be automatically set to the highest provided by the TV.


HDMI-DVI Cable
(not included)

Audio Cable
(not included)

white   red
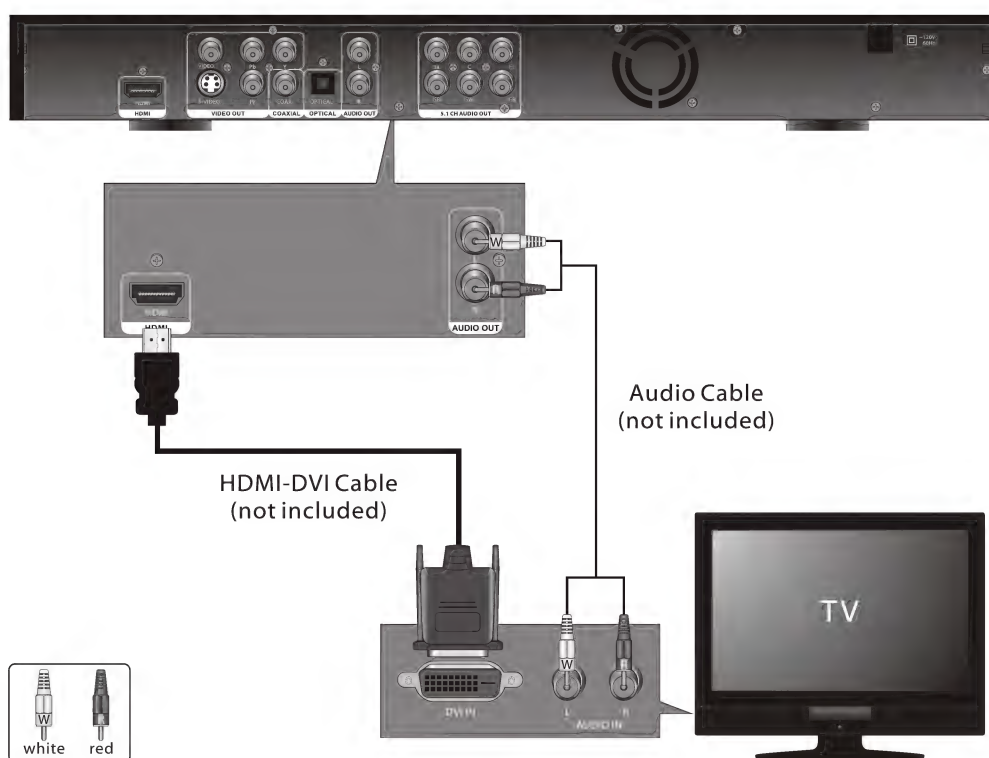
Connections

Connecting to a TV (Component)

Connecting to your TV using Component video cables.

You will enjoy high quality and accurate color reproduction images. Component video separates the picture element into back and white (Y), blue (PB) signals to present clear and clean images (Audio signals are delivered through the audio output).

1. Using component video cables(not included), connect the component video out terminals on the rear of the Blu-ray disc player to the component in terminals of your TV.
2. Using the audio cables(not included), connect the audio (red and white) in terminals of your TV. Turn on the Blu-ray disc player and TV.
3. Press the input selector on your TV remote control until the component signal from the Blu-ray disc player appears on the TV screen. If you have set the remote control to properly operate with your TV, press the TV input sel. button on the remote control and select component as the external source of the TV.

Audio Cable
(not included)

Component Cable
(not included)

Pr	Pb	Y	Audio L	Audio R
red	blue	green	white	red
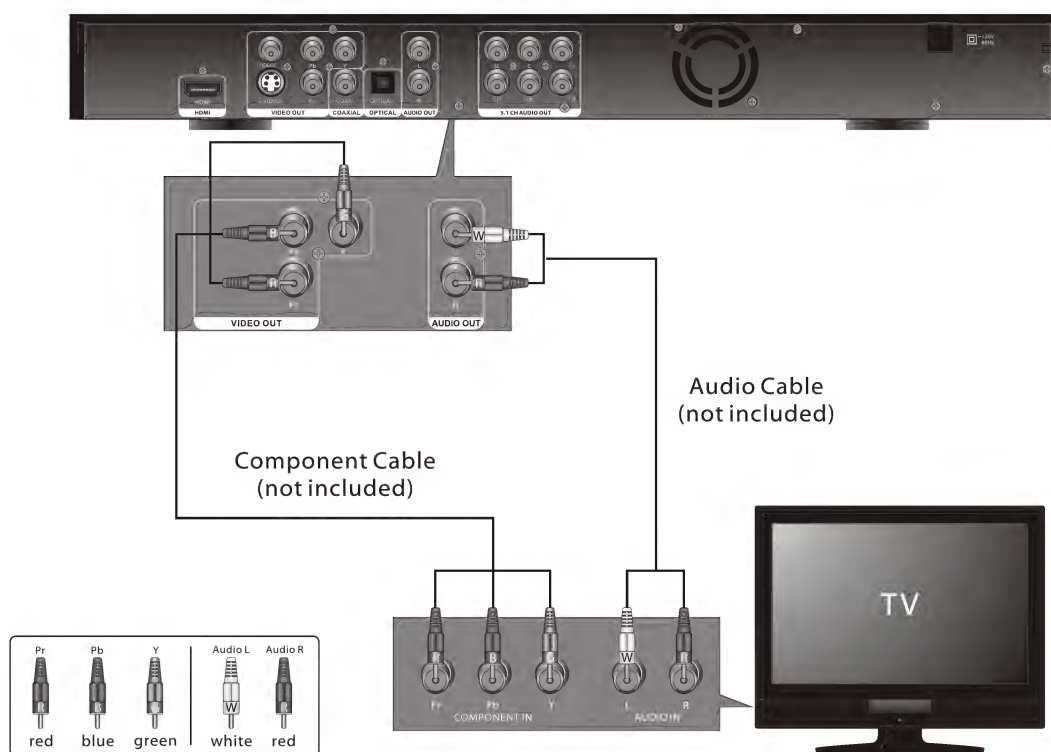
[**NOTE**]:
• Depending on the manufacturer, the component terminals on your TV may be marked"R-Y, B-Y, Y" or "Cr, Cb, Y" instead of "Pr, Pb, Y". The number and position of terminals may vary depending on the TV set. Please refer to the use's manual of your TV.
• You can select from a variety of resolution settings such as 1080i,720p,480p and 480i, depending on the disc type. 1080p is only available when using an HDMI cable.
• The actual resolution may differ from the setting in the SETUP menu if both Component and HDMI cables are connected. The resolution may also be different depending on the disc.
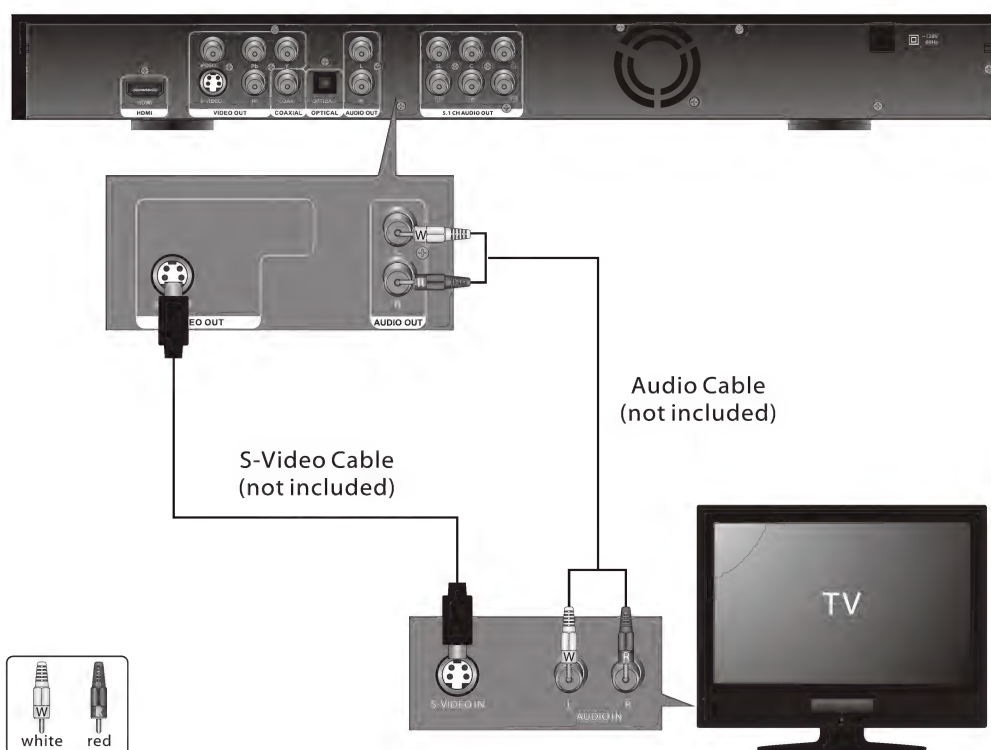
Connections

Connecting to a TV (S-Video)

Connecting to your TV using an S-Video cable.
S-video separates the picture element into black and white (Y) and color (C) signals to present clearer images than standard video cables. **Using a s-video cable will not allow for HD content to be displayed.**
1. Using an S-video cable (not included),connect the S-VIDEO OUT terminal on the rear of the Blu-ray disc player to the S-VIDEO IN terminals of your TV.
2. Using the audio cables (not included), connect the AUDIO (red and white) OUT terminals on the rear of the Blu-ray disc player to the AUDIO (red and white) IN terminals of your TV. Turn on the Blu-ray disc player and TV.
3. Press the input selector on your TV remote control until the S-VIDEO signal from the Blu-ray disc player appears on your TV screen.
   If you have set the remote control to properly operate with your TV, press the TV INPUT SEL. button on the remote control and select S-VIDEO as the external source of the TV.
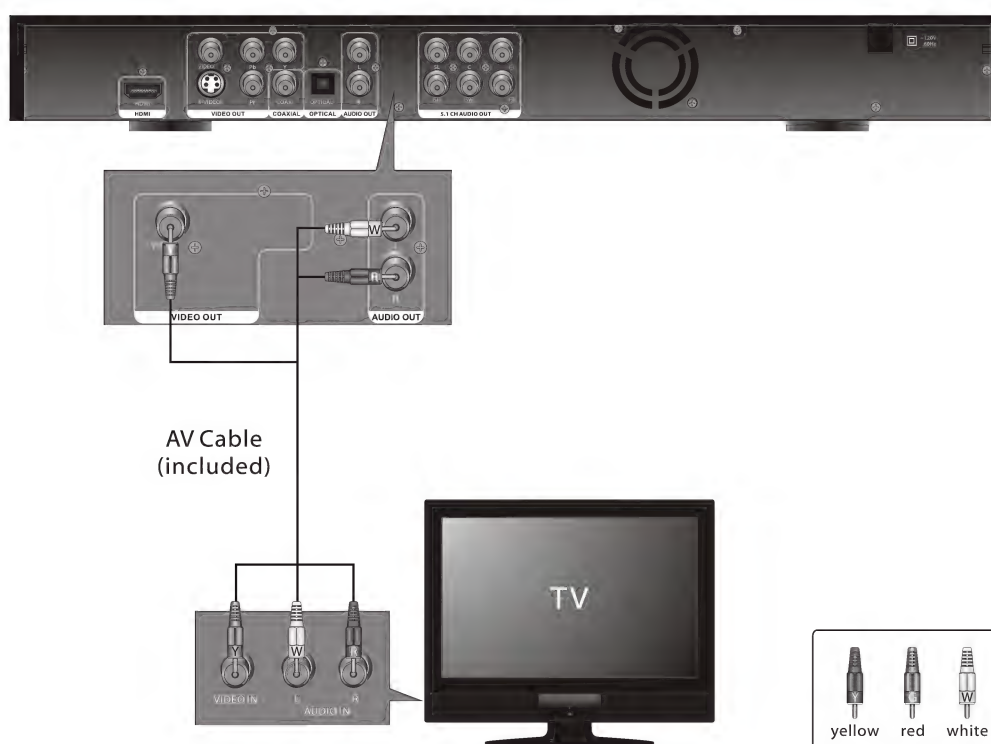

Audio Cable
(not included)

S-Video Cable
(not included)

white   red

[**NOTE**]:
• The S-VIDEO source is always output in 480iresolution regardless of the set resolution in the SETUP menu.

Connections

Connecting to a TV (Video)

1. Using video / audio cables, connect the VIDEO (yellow) / AUDIO (red and white) OUT terminals on the rear of the Blu-ray disc player to the VIDEO(yellow)/AUDIO(red and white)IN terminals of your TV. **Using standard video cables will not allow for HD content to be displayed.**
2. Turn on the Blu-ray disc player and TV.
3. Press the input selector on your TV remote control until the Video signal from the Blu-ray disc player appears on the TV screen.
   If you have set the remote control to properly operate with your TV, press the TV INPUT SEL. button on the remote control and select VIDEO as the external source of the TV.


AV Cable
(included)

[**NOTE**]:
• Noise may be generated if the audio cable placed too close to the power cable.
• If you want to connect to an Amplifier, please refer to the Amplifier connection Pages.
• The number and position of terminals may vary depending on your TV set. Please refer to the use's manual of your TV.
• If there is one audio input terminal on the TV, connect it to the [AUDIO OUT] [left] (white) terminal of the Blu-ray disc player.
• The VIDEO source is always output in 480iresolution regardless of the set resolution in the SETUP menu.

Connections

Connecting to an Audio System (2 Channel Amplifier)

1. Using the audio cables (not included), connect the AUDIO (red and white) OUT terminals on the rear of the Blu -ray disc player to the AUDIO (red and white) IN terminals of your Amplifier.
2. Using the video signal cable (s),connect the HDMI, COMPONENT, S-VIDEO or VIDEO OUT terminals on the rear of the Blu-ray disc player to HDMI, COMPONENT, S-VIDEO or VIDEO IN terminal of your TV .
3. Turn on the Blu-ray disc player, TV and Amplifier.
4. Press the input select button of the Amplifier to select the external input in order to hear sound from the Blu-ray disc player. Refer to your Amplifier's user manual to set the Amplifier's audio input.


Audio Cable
(not included)

white   red

2-Channel stereo amplifier
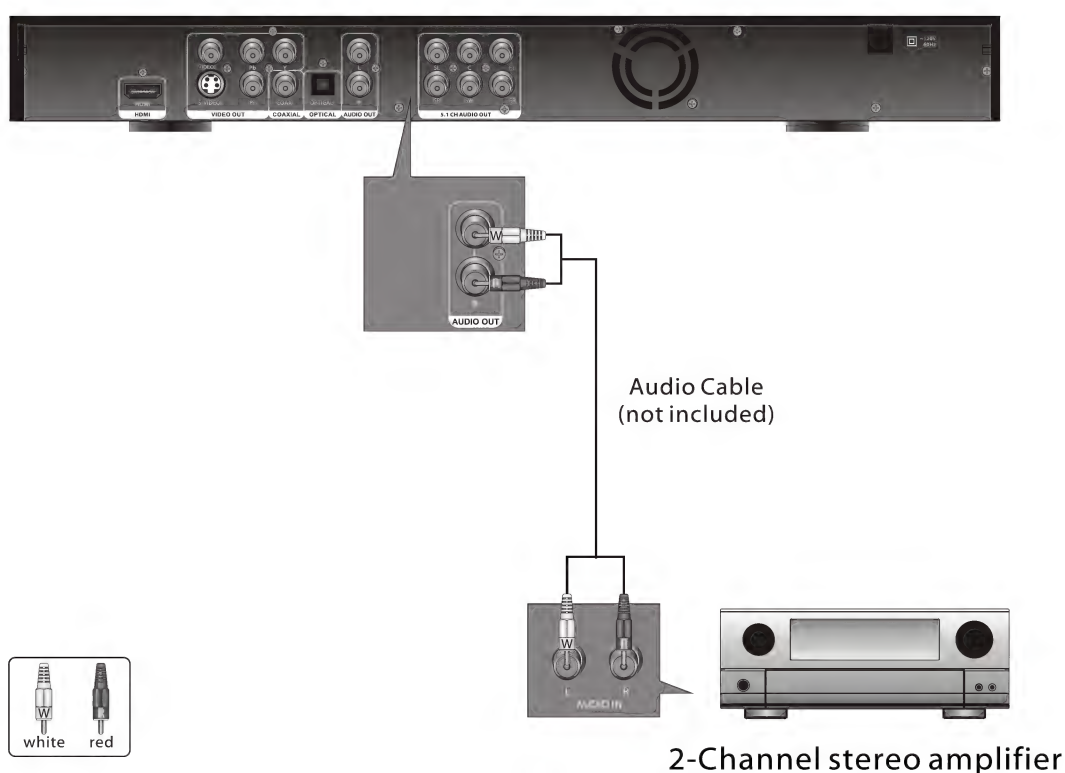
[**NOTE**]:
• Manufactured under license from Dolby Laboratories. " Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
• "DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.

Connections

Connecting to an Audio System (5.1 Channel Amplifier)

1. Using the audio cables, connect the 5.1 ANALOG AUDIO OUT (FR, FL, C, SW, SL, SR) terminals on the rear of the Blu-ray disc player to the 5.1 Channel ANALOG AUDIO IN (FR, FL, C, SW, SL, SR) terminal of your Amplifier.
2. Using the video signal cable (s), connect the HDMI, COMPONENT, S-VIDEO or VIDEO OUT terminals on the rear of the Blu-ray disc player to HDMI, COMPONENT, S-VIDEO or VIDEO IN terminal of your TV as described.
3. Turn on the Blu-ray disc player, TV and Amplifier.
   Press the input select button of the Amplifier to select the external input in order to hear sound from the Blu-ray disc player. Refer to your Amplifier's user manual to set the Amplifier's audio input.
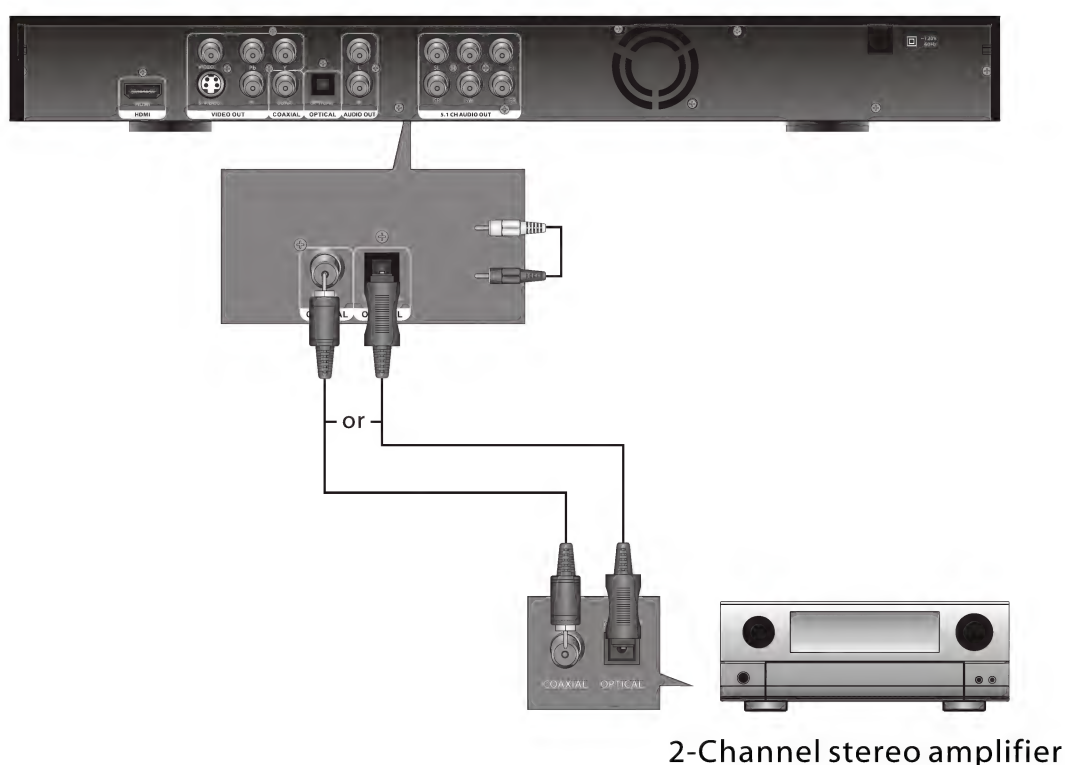

5.1 Channel Amplifier
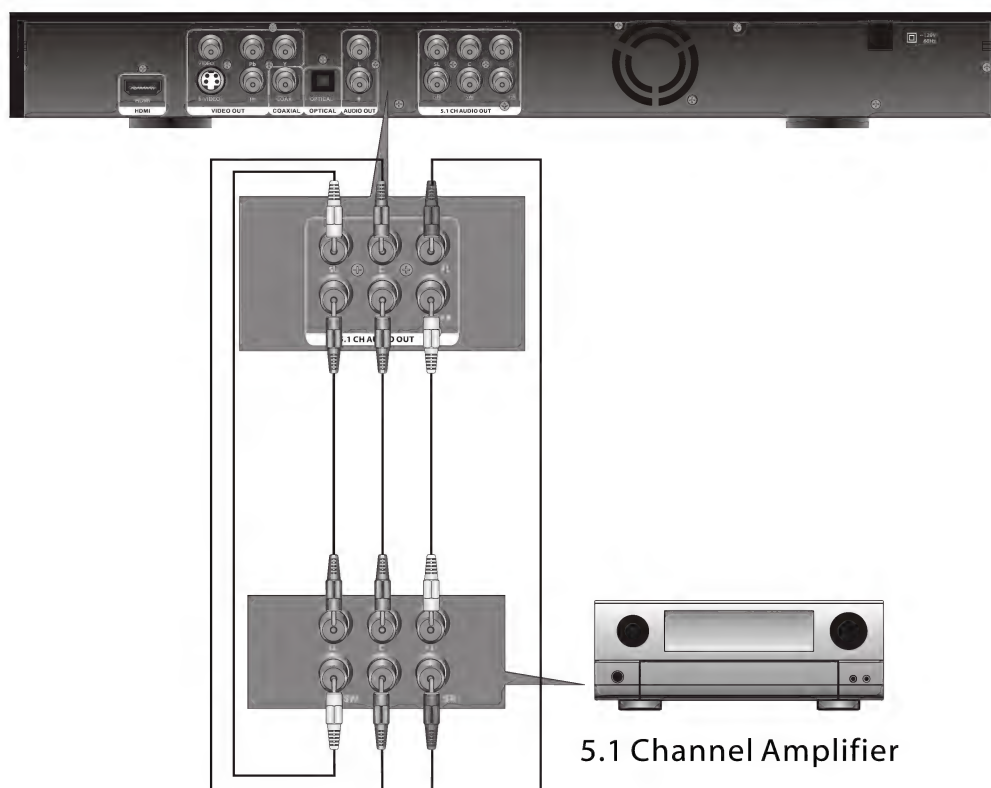
[**NOTE**]:
• Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
• Please set the audio in the menu screen according to the Amplifier.
• The position of terminals may vary depending on the Amplifier. Please refer to the use's manual of your Amplifier.
• The front left and right outputs on your player and 5.1 channel amplifier must be connected to hear disc menu audio from certain Blu-ray discs.

Connections

Connecting to an Audio System (DOLBY Digital, DTS Amplifier)

1. If using an optical cable (not included), connect the DIGITAL AUDIO OUT (optical) terminal on the rear of the Blu-ray disc player to the DIGITAL AUDIO IN (optical) terminal of your Amplifier.
2. If using a coaxial cable (not included),connect the HDMI, COMPONENT, S-VIDEO or VIDEO OUT terminals on the rear of the Blu-ray disc player to HDMI, COMPONENT, S-VIDEO or VIDEO IN terminal of your TV.
3. Turn on the Blu-ray disc player, TV and Amplifier.
   Press the input select button of the Amplifier to select the external input in order to hear sound from the Blu-ray Disc player. Refer to your Amplifier's user manual to set the Amplifier's audio input.

2-Channel stereo amplifier

[**NOTE**]:
• Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
• Please set the audio in the menu screen according to the Amplifier.
• The position of terminals may vary depending on the Amplifier. Please refer to the use's manual of your Amplifier.
• When using this connection, Blu-ray Discs with an LPCM audio soundtrack will only be heard over the front two channels.

Basic Functions of Your Blu-ray Disc Player

This section introduces basic playback functions and playback by disc type.

Before Playing

• Turn on your TV and set it to the correct Video Input (the input the Blu-ray player is connected to).
• If you connected an external Audio System, turn on your Audio System and set it to the correct Audio Input.

After plugging in the player, the first time you press the POWER button, this screen comes up:

[**NOTE**]:
• Discs which cannot be played on this player.

BD-R	BD-RE	HD DVD	DVD-RAM
CDV	CVD	CD-I	

Super Audio CD(except CD layer)   CDGs play audio only, not graphics.

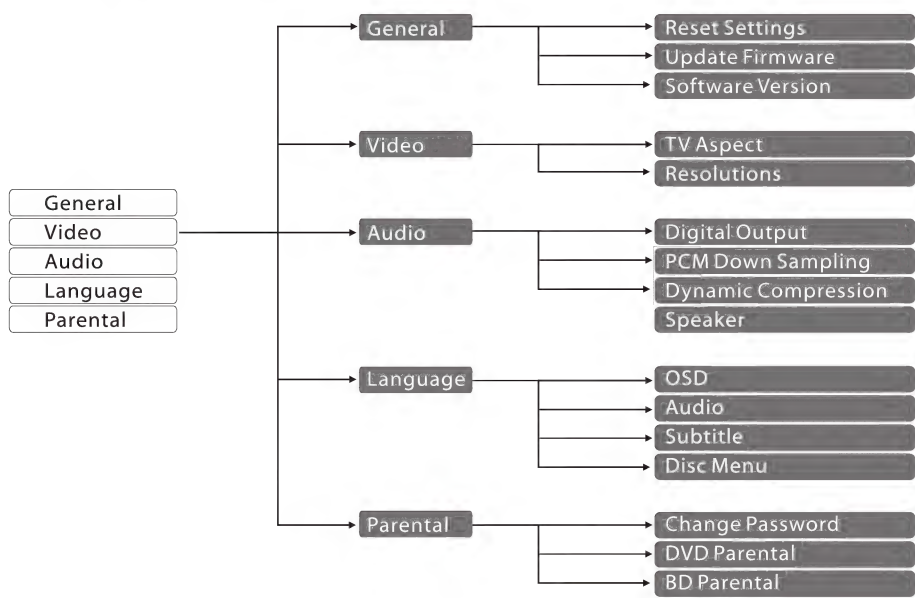• Ability to play back may depend on recording conditions.

DVD+R   DVD-R   CD-RW/R   DVD+RW (V mode)   DVD-RW (V mode)

The unit may not play certain DVD+R, DVD-R, CD-RW/R, DVD+RW (V mode), DVD-RW (V mode) DVD-R due to the disc type or recording conditions.

• Blu-ray Disc is a new and evolving format. Accordingly, disc compatibility issues with new and existing format discs are possible. Not all discs are compatible and not every disc will playback.
For additional information, refer to the Disc Type and Characteristics and Compliance and Compatibility Notice sections of this Manual. If you encounter compatibility problems, please contact customer care center.

Basic Functions of Your
Blu-ray Disc Player

On-Screen Menu Navigation

```
                            ┌─ General ──────┬─ Reset Settings
                            │                ├─ Update Firmware
                            │                └─ Software Version
                            │
                            ├─ Video ────────┬─ TV Aspect
                            │                └─ Resolutions
  ┌──────────────┐         │
  │  General     │         ├─ Audio ────────┬─ Digital Output
  │  Video       │─────────┤                ├─ PCM Down Sampling
  │  Audio       │         │                ├─ Dynamic Compression
  │  Language    │         │                └─ Speaker
  │  Parental    │         │
  └──────────────┘         ├─ Language ─────┬─ OSD
                            │                ├─ Audio
                            │                ├─ Subtitle
                            │                └─ Disc Menu
                            │
                            └─ Parental ─────┬─ Change Password
                                             ├─ DVD Parental
                                             └─ BD Parental
```

Playing a Disc

1. Press the **OPEN/CLOSE** (▲) button, and then the tray opens.
2. Place a disc gently into the tray with the disc's label facing up.
3. Press the **OPEN/CLOSE** (▲) button to close the disc tray
4. The player will playback the disc, when the unit detecting the disc is available.

[**NOTE**]:
• When you stop disc play, the player remembers where you stopped, so when you press **PLAY** (▶) button again, it will pick up where you left off, expect BD-J disc.
• Press the **STOP** (■) button twice during playback to disable the Resume function.
• To pause the playback, press the **PAUSE** (❚❚) button during playback.
  To resume, press the **PLAY** (▶) button once again.
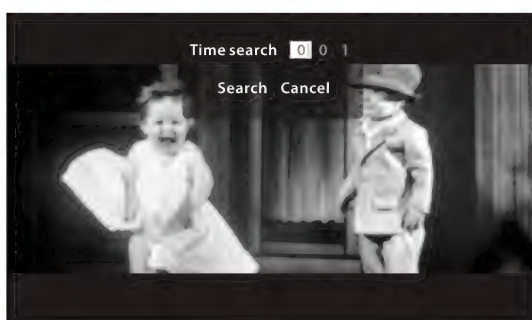
Basic Functions of Your
Blu-ray Disc Player

Using The Search

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Time Searching

1. During playback, press the **SEARCH** button.
2. A dialog window will display on the screen as below:

[**NOTE**]:
Put the time number you want to play, press the button↓ → to select "Search" "Cancel"; then press **ENTER** to confirm.

Skipping Tracks

During playback, press the ◄◄ ►►| button.
When playing a BD/DVD, if you press the ►►| button, it moves to the next chapter. If you press the ◄◄ button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.

Slow Motion Play/Step Motion Play

Slow Forward Play

In pause or step mode, press the **SLOW** button on the remote control for Slow Forward play.
• To return to normal speed playback, press the **PLAY** button.

[**NOTE**]:
• This (▼ invalid key) icon indicates an invalid button press.
• No sound is heard during slow mode.

Basic Functions of Your Blu-ray Disc Player

Step Forward Play

Press the **PAUSE/STEP** button twice on the Remote Control during play for Step Forward play.
• Each time the button is pressed a new frame will appear.
• When the **PAUSE/STEP** button is pressed, the next frame will be activated.
• Press the **PLAY** (▶) button to resume normal play.

[**NOTE**]:
• No sound is heard during fast reverse / slow forward mode.
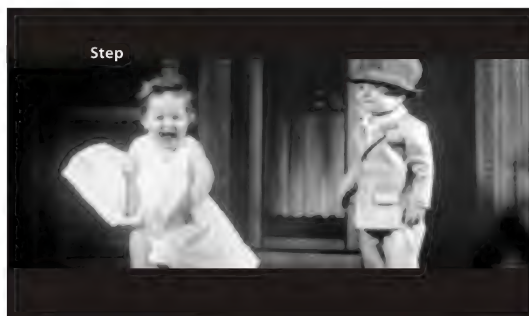
System setup

For your convenience, configure proper settings for the external device to connect or any other environment before using the player.

General Setting

Reset Setting

1. With the unit in No Disc mode, press the **SETUP** button.
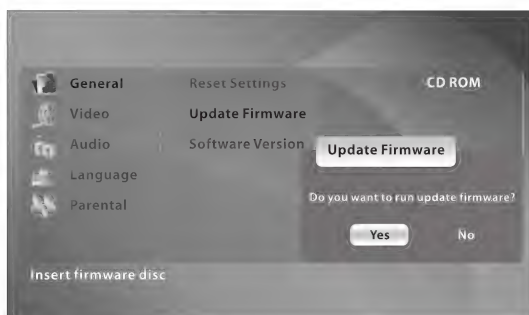2. Press the ↑ ↓ buttons to select **General,** then press the **ENTER** or → button.

3. Press the ↑ ↓ buttons to select **Reset Setting**, then press the **ENTER** or → button.

4. Press **ENTER** or → button to select "**Are you sure?**" and then press **ENTER** button.
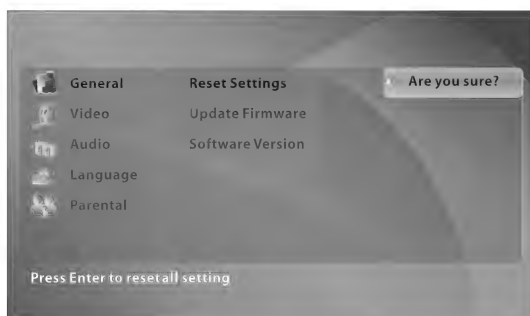
5. If you really want to reset the player, please select "**Yes**".
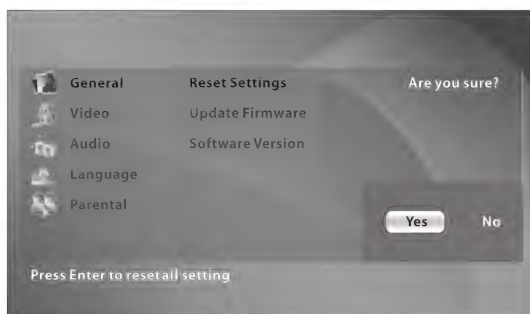
System setup

Firmware Upgrade

1. With the unit in No Disc mode, press the **SETUP** button.
2. Press the ↑ ↓ buttons to select **General,** then press the **ENTER** or → button.

3. Press the ↑ ↓ buttons to select **Upgrade Firmware** , then press the **ENTER** or → button.
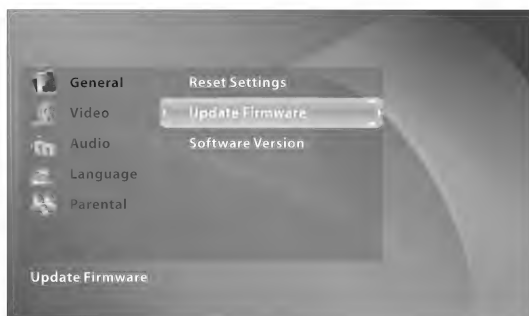
4. Press the → button to select **CD ROM**, then press the **ENTER** button.
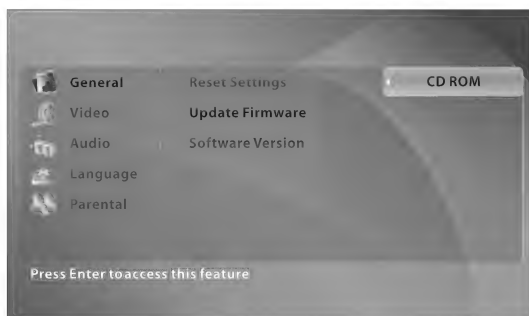
5. You will see a window that ask whether you want to run update firmware.
6. If "**Yes**", please insert firmware disc.
7. When prompted reboot the player.
8. The unit will upgrade the firmware from the CD ROM. **This will take 10-15 minutes.**

System setup

System Information

When the firmware upgrade is done, check the firmware details by following the steps below.

1. With the unit in Stop mode, press the **SETUP** button.
2. Press the ↑ ↓ buttons to select **General,** then press the **ENTER** or → button.
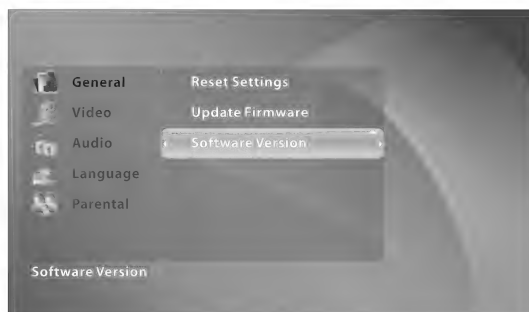
3. Press the ↑ ↓ buttons to select **Software Version**, then press the **ENTER** or → button.
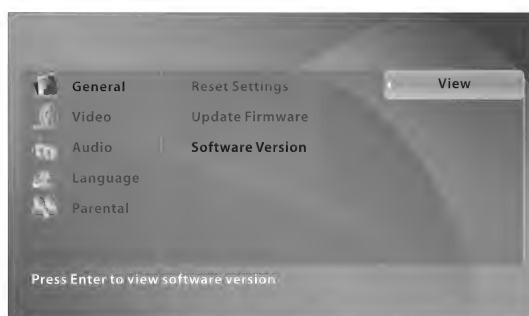
4. You can see detailed information about the current firmware version.

System setup

Setting up the Video Display / Output Options

This function allows you to setup the TV screen settings.
This function depends on the disc or TV type. It may not work with some discs or TVs.

1. With the unit in Stop mode, press the **SETUP** button.
2. Press the ↑ ↓ buttons to select **Video** Setup, then press
   the **ENTER** or → button. Video setup menu will be
   displayed.

3. Press the ↑ ↓ buttons to select the desired display
   option from the options on the following pages.

4. Press the **ENTER** or → buttons to select the desired sub-
   menu item from a video display option, then press the
   ENTER button.
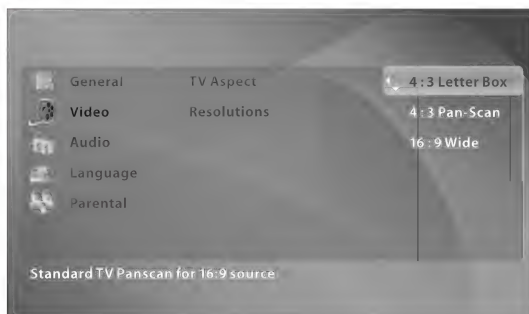
[**NOTE**]:
Press the **RETURN** or → button to return to the previous
menu. Press the **SETUP** button to exit the menu.

TV Aspect

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

* 4:3 Pan-Scan :
Select this for conventional size TV when you want to see the central portion of the 16:9
screen. (Extreme left and right side of movie picture will be cut off.)

* 4:3 Letter Box :
Select when you want to see the total 16:9 ratio screen BD/DVD supplies, even though you
have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

* 16:9 Wide :
You can view the full 16:9 picture on your wide screen TV.

System setup

[**NOTE**]:
- Depending on the disc type, some aspect ratios may not be available.
- Certain movies will be displayed in 4:3 Pillar box (black bars on sides of picture) even if 16:9 wide is selected.

Resolutions

Sets the output resolution of the Component and HDMI video signal.
- The number in 480i, 480p, 720p, 1080p, 1080i and 1080p24 indicates the number of lines of video. The i and p indicate interlace and progressive scan, respectively.
  - 480i/576i: Output 480 lines of interlaced video/Outputs 576 lines of interlaced video.
  - 480p/576p: Output 480 lines progressive video/Outputs 576 lines progressive video.
  - 720p: Output 720 lines of progressive video.
  - 1080i: Output 1080 lines of interlaced video.
  - 1080p24: Output 1080 lines of progressive video.

[**NOTE**]:
If the player doesn't work or no response for long period of time, press the **POWER** button on the front panel for 3 seconds to turn off the player. Once player is off, press the **POWER** button again for normal operation.

Resolution according to the output mode

• BD playback

Setup \ Output	HDMI	Component	VIDEO/S-Video
1080p	1080P@60F	1080i	480i
1080p24	1080P@24F	1080i	480i
1080i	1080i	1080i	480i
720P	720P	720P	480i
480P	480P	480P	480i
480i	480P	480i	480i

• DVD playback

System setup

Setup \ Output	HDMI	Component	VIDEO/S-Video
1080p	1080P@60F	1080i	480i
1080i	1080i	1080i	480i
720P	720P	720P	480i
480P	480P	480P	480i
480i	480P	480i	480i

[**NOTE**]:
• This player has the HDMI Auto Detect Feature. When the player is first connected to a TV via HDMI, the player's output will be set automatically to HDMI.
• If the HDMI Auto Detection feature does not work, you can't select the 1080p resolution or Movie Frame (24Fs).
• The BD disc must have the 24 frame feature in order to use the Movie Frame (24Fs) mode.
• If you have both HDMI and Component cables connected to your TV, the Component resolution may differ from the chart above.

System setup

Setting up the Audio Options

Allows you to set up the Audio device and sound status depending on the audio system being used with the player.

1. With the unit in Stop mode, press the **SETUP** button.
2. Press the ↑ ↓ buttons to select **Audio** Setup, then press the **ENTER** or → button. Audio setup menu will be displayed.

[**NOTE**]:
• Press the **RETURN** or ← button to return to the previous menu.
• Press the **SETUP** button to exit the menu.
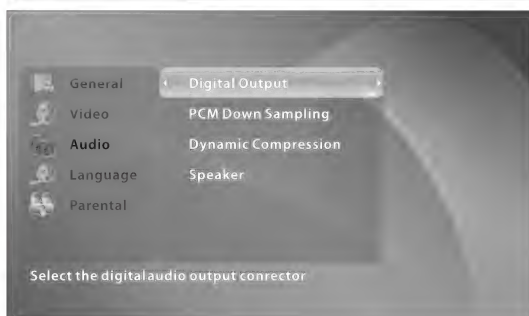
Digital Output

Digital Output: Output digital audio signal for amplifier with digital input.

• **S/PDIF:** Select this when your equipment connected Via Optical / Coaxial cable.
• **HDMI Audio:** Select this when your equipment connected Via HDMI cable.
• **PCM:** Decoded digital audio signal applies to amplifier without decoded DTS, Dolby and HDMI TV and so on.
• **BITSTREAM:** Applies to amplifier with decoded DTS, Dolby and HDMI TV and so on.
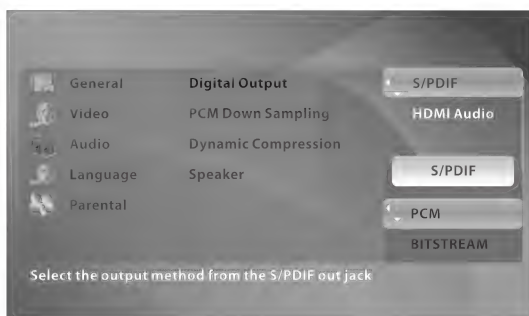
PCM Down Sampling

• **On :** Select this when the Amplifier connected to the player is not 96KHz compatible. 96KHz signals will be down converted to 48KHz
• **Off :** Select this when the Amplifier connected to the player is 96KHz compatible. Signals will be output without any changes.
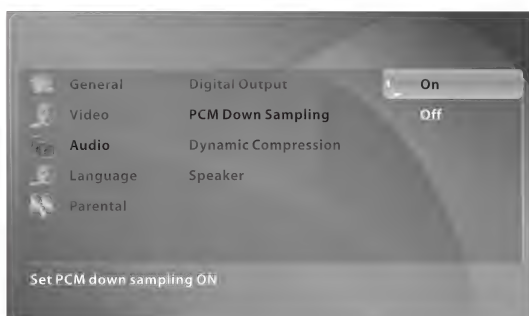
System setup

[**NOTE**]:
• Even when PCM Down Sampling is set to Off, some discs will only output down sampled audio through the coaxial and optical digital outputs.

Digital Output - HDMI:
• If your TV is not compatible with compressed multi-channel formats (Dolby Digital, DTS), you should set Digital Audio to PCM.
• If your TV is not compatible with LPCM sampling rates over 48kHz, you should set PCM Down Sampling to On.

Dynamic Compression

This is only active when a Dolby Digital signal is detected.
• **Off:** You can enjoy the movie with the standard Dynamic Range.
• **On:** When Movie soundtracks are played at low volume or from smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.
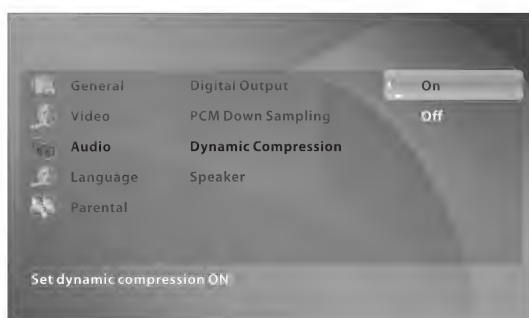
Speaker

The option configuration settings for multi channel 5.1 output connectors.
• **C:** Set the distance of the center speaker.
• **L/R:** Set the distance of the left and right speakers.
• **SL/SR:** Set the distance of the surround left and surround right speakers.
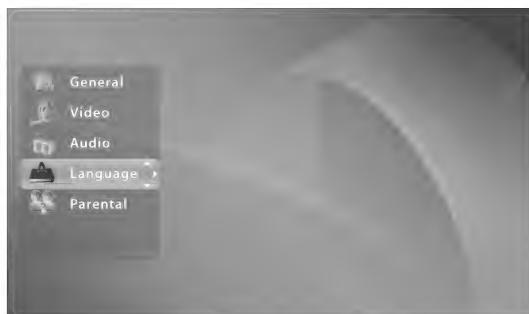• **LFE:** Set the distance of the low frequency effect speaker.
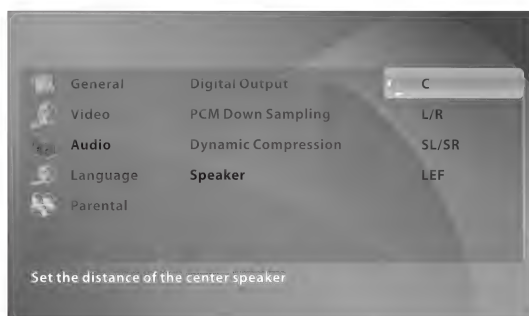
System setup

Setting up the Language Options

If you set the audio, subtitle, disc menu and player menu, in advance, they will come up automatically every time you watch a movie.

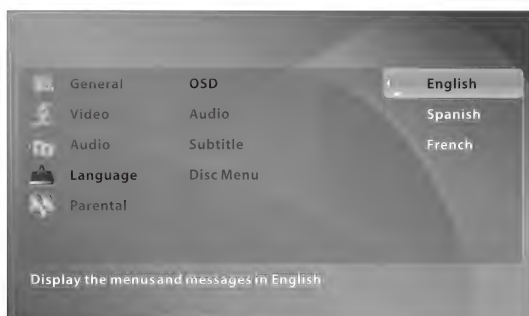1. With the unit in Stop mode, press the **SETUP** button.

2. Press the ↑ ↓ buttons to select **Language** Setup, then press the **ENTER** or → button. Language setup menu will be displayed.

4. Press the ↑ ↓ buttons to select the desired language option, press the **ENTER** or → button.

   • **OSD:** For the on-screen menu of your Blu-ray Disc Player.
   • **Audio:** For the disc audio language.
   • **Subtitle:** For the disc subtitles.
   • **Disc Menu:** For the disc menu contained on the disc.

5. Press the ↑ ↓ buttons to select the desired language, then press the **ENTER** button.

[**NOTE**]:
• Press the **RETURN** or ← button to return to the previous menu. Press the **SETUP** button to exit the menu.
• The selected language will only appear if it is supported on the disc.

System setup

Setting up the Parental Lock

The Parental Lock function works in conjunction with BD/DVDs that have been assigned a rating which helps you control the types of BD/DVDs that your family watches.

Change the password

1. With the unit in Stop mode, press the **SETUP** button.
2. Press the ↑ ↓ buttons to select **Parental** Setup, then press the **ENTER** or → button. Parental setup menu will be displayed.
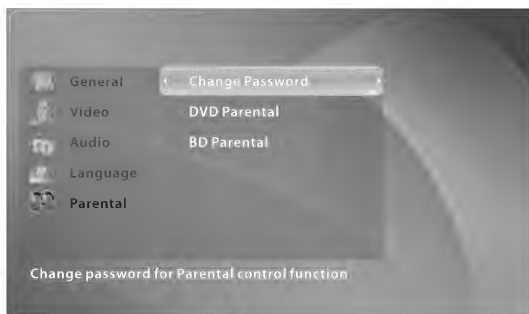
3. The original password is "**000000**", if you want to change the password, please press the ↑ ↓ buttons to select **Parental** Setup, then press the **ENTER** or → button. When you operate your Blu-ray Disc Player for the first time, the "**Are you sure?**" message will be displayed. If "**Yes**", please press **ENTER** button.
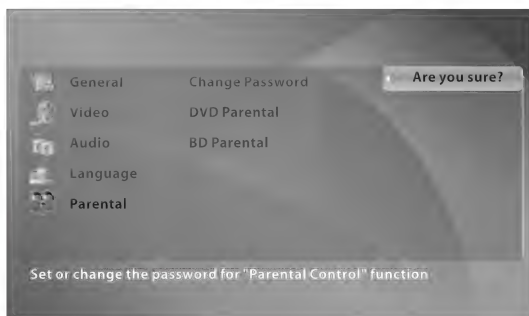
4. Enter the 6-digit password using the number buttons on the remote control.
   The "**Confirm the password**" message will be displayed. Enter your password again.
   Press "**OK**" to finish the password set.

[**NOTE**]:
• Press the **RETURN** or ← button to return to the previous menu.
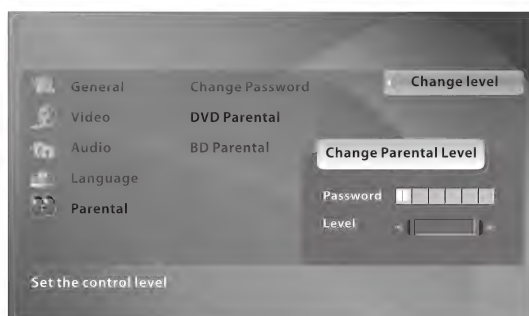• Press the **SETUP** button to exit the menu.
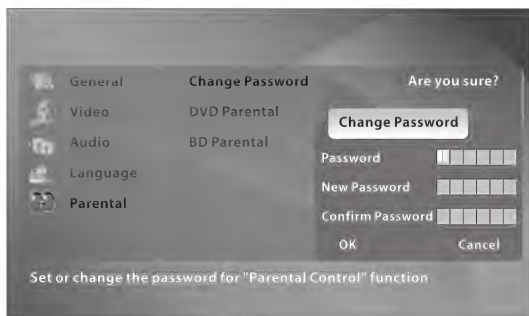
System setup

Set the control level, the display ask for the password, if the BD disc's pre-determined age restriction is higher than the age you test. There are up to 8 rating levels on a DVD disc.

Setting the DVD Rating Level

1. Press the ↑ ↓ buttons to select **DVD Parental**, then press the **ENTER** or → button.
2. Select **Change level**, then press **ENTER** and the "**Change Parental level**" will be display.

3. Input the 6-digital password. Press the ← → buttons to select **Off** or the rating level you want, then press the **ENTER** button. For example, if you select up to Level 6, discs that contain Level 7, 8 will not play.
   A larger number indicates that the program is intended for adult use only.
   Level 1 is the most restrictive and Level 8 is the least.
4. If you select "**Off**" the parental lock function will unlock and all of the DVD disc could be played without any password.

Setting the BD Rating Level

1. Press the ↑ ↓ buttons to select **BD Parental**, then press the **ENTER** or → button.
2. Select **BD Age**, then press **ENTER** and the "**BD Age**" will be display. Input the Age you want, then press the **ENTER** button. For example, if you input 15, discs that contain age 15 will not play.
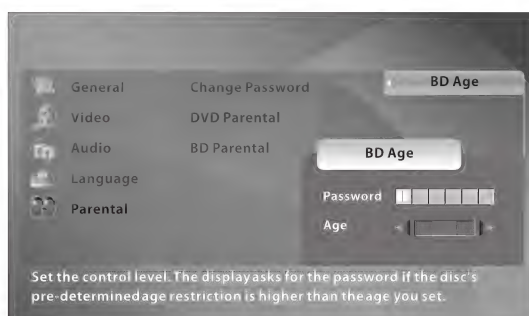
3. Input the 6-digital password . Press the ← → buttons to select **Off** or you want, then press the **ENTER** button.
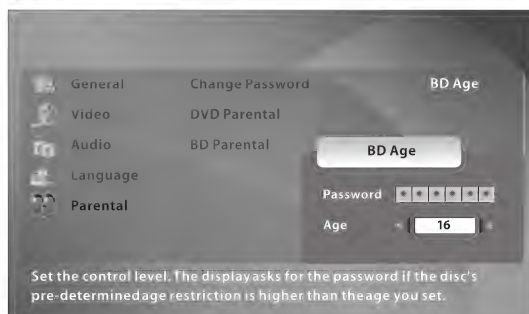
Watching a Movie

Using the Display Function

1. During playback, press the **INFO** button on the remote control.
2. Press the ↑ ↓ buttons to select the desired item.
3. Press the **NUMBER** buttons to make the desired setup and then press the **ENTER** button.
   - You may use the number buttons of the remote control to directly access a title.
4. To make the screen disappear, press the **INFO** button again.

[**NOTE**]:
- If you are playing contents from the Info menu, in some cases, playback may malfunction depending on the title.
- Title : To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a BD/DVD, each movie will be identified as a Title.
- Chapter: Most BD/DVD discs are recorded in chapters so that you can quickly fi nd a specific passage.
- Audio : Refers to the film's soundtrack language. A BD disc can contain up to 32 audio languages and a DVD up to 8.
- Playing Time : Allows playback of the film from a desired time. You must enter the starting time as a reference. The time search function does not operate on some discs.
- Subtitle : Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A BD disc can contain up to 255 subtitle languages, and a DVD up to 32.
- Angle : When a BD/DVD contains multiple angles of a particular scene, you can use the **ANGLE** function.
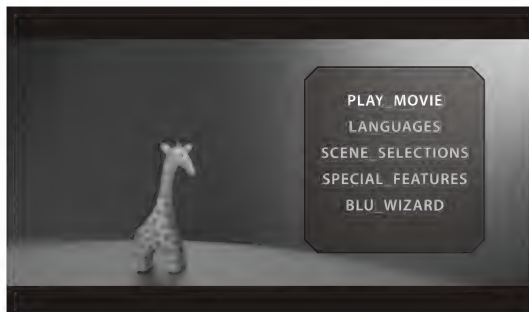
Watching a Movie

Using the Top Menu & Pop Menu

Using the Top Menu

1. During playback, press the **TOP MENU** button on the remote control.
2. Press the ↑ ↓ ← → buttons to make the desired setup, then press the → or **ENTER** button.
   • The Disc menu setup items may vary from disc to disc.

[**NOTE**]:
• Depending on the disc, the Top Menu may not be available.

Using the Pop Menu

1. During playback, press the **POP MENU** button on the remote control.
2. Press the ↑ ↓ ← → buttons or **ENTER** button to select the desired menu.
   • The Pop menu setup options may vary from disc to disc.

[**NOTE**]:
• Depending on the disc, the Pop Menu may not be available.
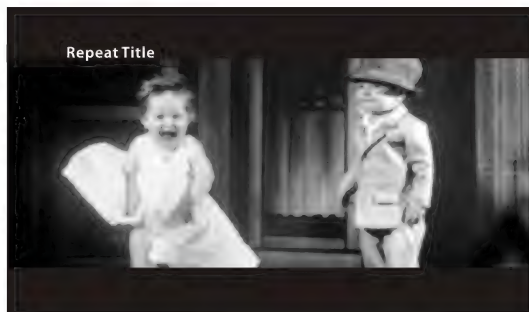
Watching a Movie

Repeat Play

Repeat the current chapter or title.

Repeat playback

1. During playback, press the **REPEAT** button on the remote control. Repeat screen appears.
2. Press the **REPEAT** button to select.

[**NOTE**]:
Depending on the disc, the Repeat function may not be available.

Selecting the Audio Language

You can select a desired audio language quickly and easily with the AUDIO button.

Using the AUDIO button

1. Press the **AUDIO** button during playback. The Audio changes when the button is pressed repeatedly.
   • The audio languages are represented by abbreviations.
2. To remove the **AUDIO** icon, press the **RETURN** button.
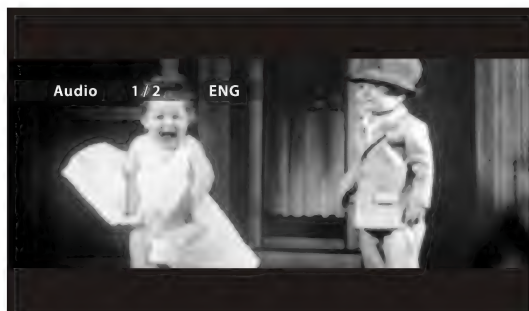
Watching a Movie

## Selecting the Subtitle Language

You can select a desired subtitle quickly and easily with the SUBT button.

Using the SUBT button

1. Press the **SUBT** button. The subtitle changes when the button is pressed repeatedly. The subtitle languages are represented by abbreviations.
2. To remove the SUBTITLE icon, press the **RETURN** button.

[**NOTE**]:
• Depending on BD/DVDs, you may have to change the desired subtitle in the Disc Menu. Press the POP MENU button.
• This function depends on what subtitles are encoded on the disc and may not be available on all BD/DVDs.
• A BD disc can contain up to 255 subtitle languages and a DVD up to 32.
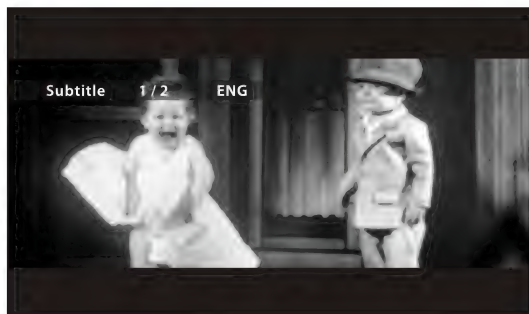
Changing the Camera Angle

When a BD/DVD contains multiple angles of a particular scene, you can use the ANGLE function.

Using the ANGLE function

1. During playback, press the **ANGLE** button on the remote control.
2. Press the **ANGLE** button repeatedly to select the mode you need.

[**NOTE**]:
• If the disc has only one angle, this feature won't work. Currently, very few discs have this feature.
• Depending on the disc, these functions may not work.
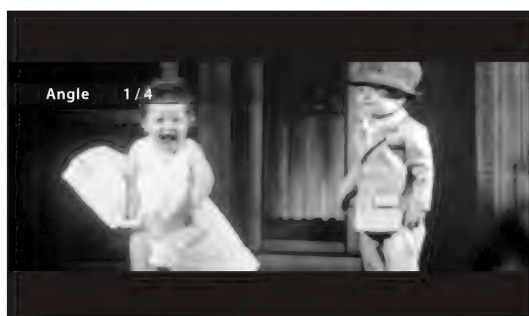
Listening to Music

Playing an Audio CD (CD-DA)

1. Insert an Audio CD (CD-DA) into the disc tray. For an audio CD, the first track will be played automatically.
2. Press the ↑ ↓ buttons to select the track you want to play, and then press the **ENTER** button.
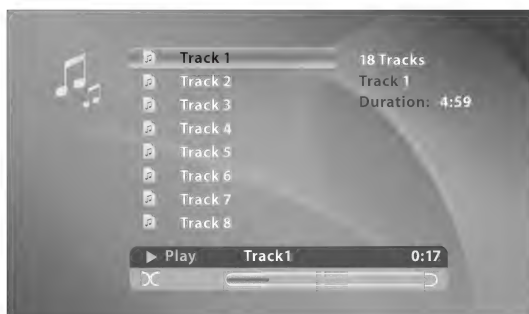
Playing an MP3

1. When you insert an MP3 disc into the disc tray, the title list will be displayed.
2. Press the ↑ ↓ buttons to select **Audio** item, then press the **ENTER** button, the Music List is displayed.

3. Press the ↑ ↓ buttons to select the MP3 file you want to play, and then press the **ENTER** button.
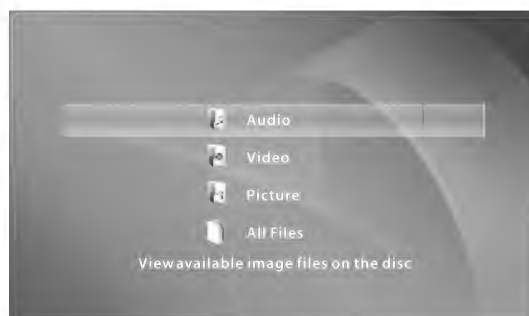
Playing USB

1. When you insert an USB disc into the disc tray
2. Press the **SUBT/USB** button to select enter into USB mode.
3. Press the ↑ ↓ buttons to select relation USB, and press **ENTER** button, the title list will displayed.
4. Press the ↑ ↓ buttons to select **AUDIO** item, then press the **ENTER** button, the music list is displayed.
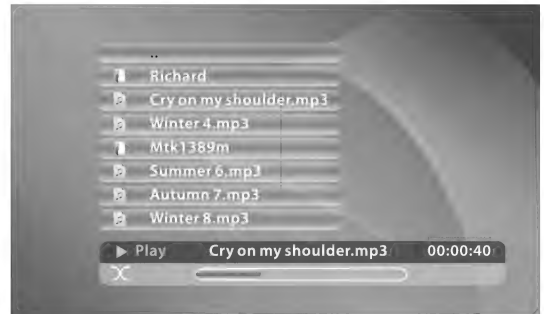5. Press the ↑ ↓ buttons to select music item you want to play, and then press the **ENTER** button.
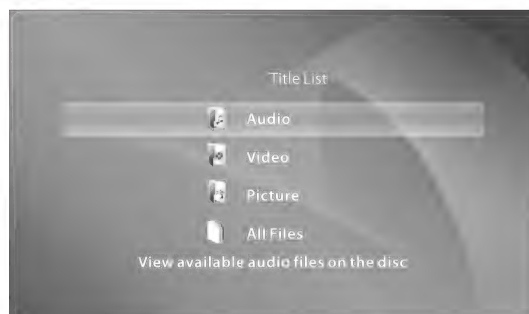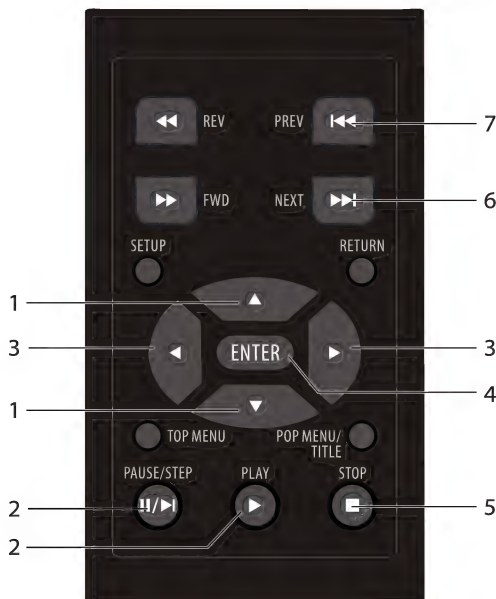
Listening to Music

Audio CD (CD-DA) / MP3 Screen Elements

❶	Current track (song) Audio CD (CD-DA) : Displays the number of the track currently being played. MP3 : Displays the name of the track currently being played.

❷	Play Status Bar.
❸	Current Play Time.
❹	Displays available COLOR buttons..

Buttons on the Remote Control Used for Audio CD (CD-DA) / MP3 Disc Playback

1. ↑ ↓ buttons: Selects a track(song) or a folder in Music List or Playlist.
2. **PLAY/PAUSE/STEP** button: Plays the currently selected track. If pressed during playback, the current track is paused.
3. ← → buttons
    →: Moves to the applicable folder or plays the applicable track, according to the current position.
    ←: Moves to the parent folder.
4. **ENTER** button : Plays the selected track (song).
5. **STOP** (■) button: Stops a track (song).
6. **NEXT** (▸▸I) button: During playback, plays the next track. Moves to the next page in the Music List or the Playlist.
7. **PREV** (I◂◂) button: Returns to the beginning of the current track when pressed during playback. If pressed again, your Blu-ray Disc Player moves to and plays the previous track.

Watching Video

Repeat Audio CD (CD-DA) & MP3

During playback, press the **REPEAT** button repeatedly to select the repeat mode you want.

When playing an Audio CD (CD-DA):

Repeat Disc:

> ▶ Play   Track1   0:17
> ✕ Repeat Disc ▭▭▭▭▭

Repeat Track:

> ▶ Play   Track1   0:17
> ✕ Repeat Track ▭▭▭▭▭

Repeat Random:

> ▶ Play   Track1   0:17
> ✕ Repeat Random ▭▭▭▭▭

When playing an MP3 disc:

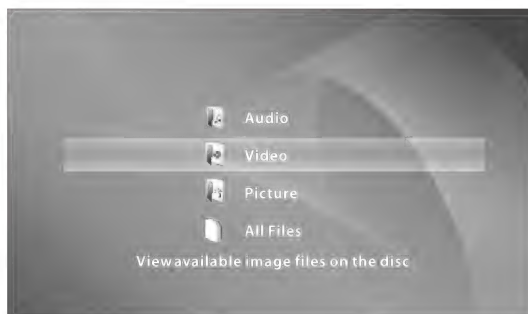> ▶ Play   Spring1.mp3   0:17
> ✕ Repeat ON ▭▭▭▭▭▭

To return to normal playback:

Press the **REPEAT** button repeatedly to return to normal playback.

Watching Video

1. Press the ↑ ↓ button to select video, then press **ENTER** button.

   - Audio
   - Video
   - Picture
   - All Files
   - View available image files on the disc

2. Select the folder by pressing ↑ ↓ button, then press **ENTER** button.
3. Select the video list by pressing ↑ ↓ button, then press **ENTER** button to play video.

   - a01-divx51b-870kbps.mp4
   - a02-divx51b-870kbps.mp4
   - a03-divx51b-870kbps.mp4
   - a04-divx51b-870kbps.mp4
   - a05-divx51b-870kbps.mp4
   - a06-divx51b-870kbps.mp4
   - a07-divx51b-870kbps.mp4
   - a08-divx51b-870kbps.mp4

Viewing Picture

Viewing Picture

1. When the title list display on the screen, press ↑ ↓ button to select **PICTURE** then press **ENTER** button.
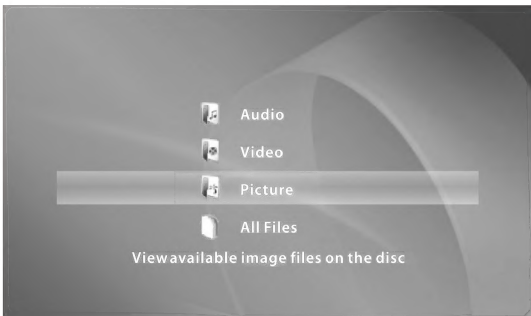
2. Press ↑ ↓ to select picture which you want to view.

About Play List

1. You can create play list when you play the media disc, the player will play the media according to the play list.

How to Create Play List

1. Refer listening music, viewing picture setup.
2. When you select a track , press → button, the dialog window will be shown.
3. Press ↑ ↓ button to select "**Play All, Add to Playlist, View Playlist, Sort by Name, Info.**"
4. Press **ENTER** button to confirm the disinfect items.

Troubleshooting

Before requesting service, please check the following.

PROBLEM	SOLUTION
No operations can be performed with the remote control	• Check the batteries in the remote control. They may need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall batteries and try to operate the remote control again.
Disc does not play	• Ensure that the disc is installed with the label side facing up. • Check the region number of the BD/DVD. • Ensure that the disc is clean with no scratches or marks.

5.1 channel sound is not being reproduced	• 5.1 channel sound is reproduced only when the following conditions are met.:
	  (1) The Blu-ray disc player is connected with the proper Amplifier
	  (2) The disc is recorded with 5.1 channel sound.
	• Check whether the disc being played has the "5.1 ch" mark on the outside.
	• Check if your audio system is connected and working properly.
	• In a SETUP Menu, is the Audio Output set to Bitstream?

Disc Menu doesn't appear	• Check if the disc has a Menu.

The ▼ icon appears on screen	• The features or action cannot be completed at this time because:
	  (1) The BD/DVD's software restricts it.
	  (2) The BD/DVD's software doesn't support the feature (e.g.,angles).
	  (3) The feature is not available at the moment.
	  (4) You've requested a title or chapter number or search time that is out of range.

Play mode differs from the Setup Menu selection	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.
The screen ratio cannot be changed	• The Screen Ratio is fixed on your BD/DVDs.
No audio	• Make sure you have selected the correct Digital Output in the Audio Options Menu.

Troubleshooting

PROBLEM	SOLUTION
If you experience other problems	• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again.
The picture is noisy or distorted	• Make sure that the disc is not dirty or scratched. • Clean the disc. • Check cables connected to TV and player.
No HDMI output	• Check the connection between the TV and the HDMI jack of the Blu-ray disc player. • Check if your TV supports 480p/720p/1080i/1080p HDMI input resolution.
Abnormal HDMI output screen	• If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).

Specifications

General	Power Requirements	AC 120V, 60Hz
	Power Consumption	25W
	Weight	5.0 kg
	Dimensions	43.0 (W) x 27.0 (D) x 5.5 (H) cm
	Operating Temperature Range	5°C to 35°C
	Operating Humidity Range	10% to 75%
Format	Disc Support	BD (405nm), DVD (650nm), CD (780nm)
	Video Support	AVC (H.264), VC-1, MPEG-2
	Audio Support	DTS, DTS-HD, Dolby Digital, Dolby Digital Plus, Dolby True HD Linear PCM
Video Output	Composite Video	1 channel: 1.0 Vp-p (75 Ω load)
		Blu-ray Disc: 480i DVD: 480i
	Component Video	Y: 1.0 Vp-p (75 Ω load)
		Pr: 0.70 Vp-p (75 Ω load)
		Pb: 0.70 Vp-p (75 Ω load)
		Blu-ray Disc: 1080i, 720p, 480p, 480i DVD: 480p, 480i
	S-Video	Luminance Signal: 1.0 Vp-p (75 Ω load)
		Chrominance Signal: 0.3 Vp-p (75 Ω load)
		Blu-ray Disc: 480i DVD: 480i
Video/Audio	HDMI	1080p24, 1080p, 1080i, 720p, 480i
		PCM multichannel audio, Bitstream audio, PCM audio
Audio Output	2 Channel	L , R
	5.1 Channel	FL, FR, C, SW, SL, SR
	Digital Audio Output	Optical / Coaxial
	Frequency Response	48 kHz Sampling: 4 Hz to 22 kHz
		96 kHz Sampling: 4 Hz to 22 kHz
	S / N Ratio	95 dB
	Dynamic Range	85 dB
	Total Harmonic Distortion	0.01%